

Title (en)

Electrocatalyst for ethanol oxidation and direct ethanol fuel cell using the same

Title (de)

Elektrokatalysator für Oxidation von Ethanol und diesen verwende Direkt-Ethanol Brennstoffzelle

Title (fr)

Electrocatalyseur pour l'oxydation de l'éthanol et pile à combustible alimentée directement à l'éthanol employant cet électrocatalyseur

Publication

EP 1408569 A2 20040414 (EN)

Application

EP 03022975 A 20031010

Priority

- JP 2002298138 A 20021011
- JP 2003344727 A 20031002

Abstract (en)

An electrocatalyst for ethanol oxidization includes an elemental mixture containing platinum and ruthenium and at least one element, wherein the foregoing at least one element is selected from the group of tungsten, tin, molybdenum, copper, gold, manganese, and vanadium.

IPC 1-7

H01M 4/92; **H01M 8/10**; **C22C 5/04**; **B01J 23/56**

IPC 8 full level

B01J 23/56 (2006.01); **B01J 23/62** (2006.01); **B01J 23/652** (2006.01); **C22C 5/04** (2006.01); **C23C 14/16** (2006.01); **C23C 14/34** (2006.01); **H01M 4/86** (2006.01); **H01M 4/88** (2006.01); **H01M 4/90** (2006.01); **H01M 4/92** (2006.01); **H01M 8/10** (2006.01); **H01M 8/24** (2006.01); **B01J 23/89** (2006.01); **B01J 37/34** (2006.01)

CPC (source: EP US)

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Cited by

CN111054412A; CN100461510C; EP1819004A4; US11894566B2; US7803264B2; US8048548B2; US8758951B2; WO2006077461A3; WO2006062954A1; WO2009007294A1; US8216437B2; US8221610B2; US11417903B2; US7718309B2; US8216956B2; US8613842B2

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